

Recombinant Firefly Luciferase Protein

Cat. No. Luciferase-168F **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Firefly Luciferase Protein.
Species	Firefly
Description	Luciferase from the firefly has become one of the more widely used reporter proteins for the study of gene expression. Luciferase catalyzes a bioluminescent reaction which requires the substrate luciferin as well as Mg ²⁺ and ATP. Mixing these reagents with the cell extract containing luciferase, results in a flash of light that decays rapidly. This light can be detected by a luminometer. The total light emission is proportional to the luciferase activity of the sample.
Purity	≥95% estimated by SDS-PAGE
Stability	≥ 9 months
Storage	At -80 centigrade.
Concentration	1 mg/mL
Storage Buffer	50 mM Tris buffer with 30% glycerol, pH 7.5

GENE INFORMATION

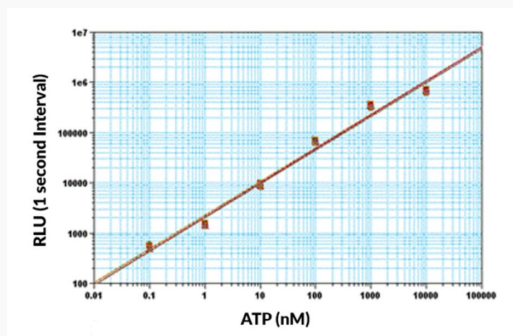
Synonyms	Luciferase
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ATP dose response
on 96-well was
measured using
luciferase. The linear
luminescence signal
for ATP
concentration from
10 μ M to 0.1 nM was
detected up to 5 hr
(Z' factor=0.7).



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